

**FREQUENCY DOMAIN TRAINING OF PREFILTERS WITH INTERFERENCE  
SUPPRESSION**

**ABSTRACT OF THE DISCLOSURE**

Prefilters for a receiver with multiple input branches are trained in the frequency domain. The frequency response  $B$  of a conditioned channel is determined without reference to the prefilters, and the frequency response  $W$  of the prefilters is computed from the frequency response  $B$  of the conditioned channel. The prefilters suppress interference.